

NCSU Libraries


# FOCUS

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Fall/Winter 2015–2016

# THINK. DO. MAKE.

## NEW MAKERSPACE OPENS AT THE D.H. HILL LIBRARY

NC STATE UNIVERSITY

 NCSU LIBRARIES

Steve and Phyllis Rea | NCSU Libraries Receives LSTA Grant | Library Stories



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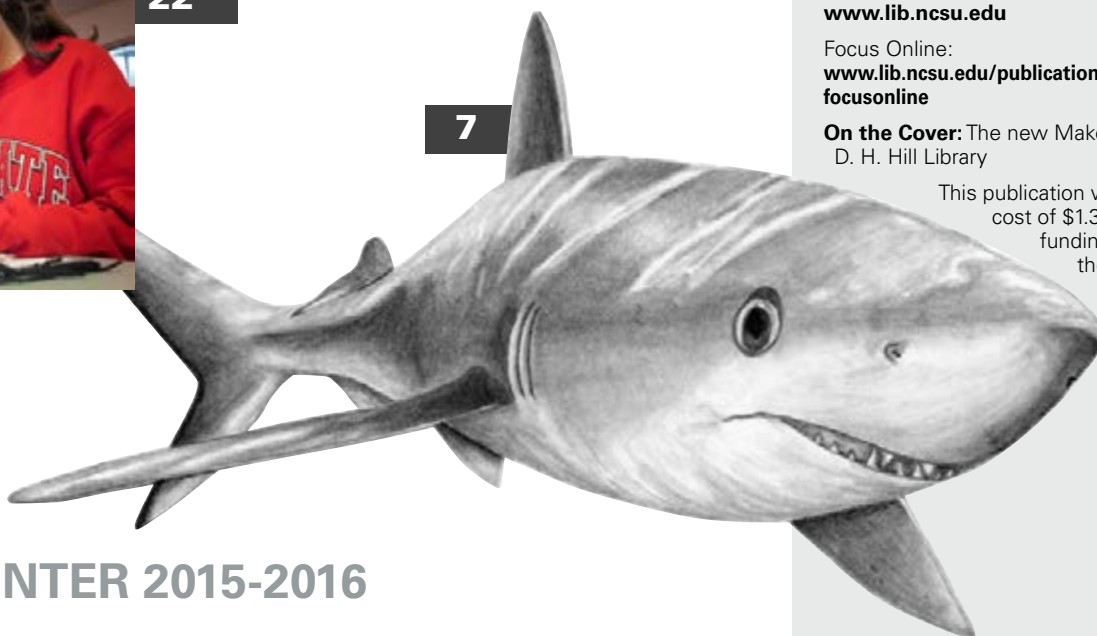


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*Focus* seeks to promote the services, activities, needs, and interests of the NCSU Libraries to the university, the Friends of the Library, and beyond.

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**On the Cover:** The new Makerspace at the D. H. Hill Library

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## FALL/WINTER 2015-2016

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# Welcome Week, Maker Days

Clockwise from top: NCSU Libraries Fellow Madison Sullivan helps a student with printing her class schedule during Welcome Week; Libraries Student Technology Advisor Philipp Lindemann models the new Libraries tattoos; Below, clockwise from left, Librarian Jason Evans Groth assists a student with an audio device in the Makerspace; a 3D printer in action during one of our Makerspace workshops; the D. H. Hill Makerspace open house.



## Welcome Week

On August 18-20, library staff welcomed new and returning students back to school with welcome tables at both the Hill and Hunt libraries. We answered all manner of library- and campus-related questions, printed students' schedules (for free!), assisted them in connecting their devices to the wireless network, gave away countless cups of ice cream, and encouraged students to follow us on social media.

The big hit of our Welcome Week swag was the debut of NCSU Libraries' temporary tattoos. Designed by Libraries Communications staff, the tattoos mixed an old-school tattoo style with modern chairs, Makerspace circuit boards, and Libraries-themed messages. Students swarmed our table at Pack-a-Palooza to get theirs and were encouraged to post photos of their tattoos to social media for a chance to win a raffle.



## Maker Days

As the new Fall semester began, students returning to campus were excited to discover and explore the new Makerspace that opened over the summer in the D. H. Hill Library. To celebrate the new space and orient students, the Libraries held Maker Days—a series of fun and informative events, orientation sessions, workshops, and tours focused on the making initiatives, activities, and cultures at NC State.





# Student Career Fair

Also in the Fall, Library staff held our first-ever Student Worker Career Fair at the D. H. Hill Library to introduce students to the many job opportunities throughout the Libraries. In all, nine Libraries departments were represented, and over 250 students, both graduate and undergraduate,

attended. Students had a chance to talk with library staff and current student workers to get an idea of what kinds of exciting jobs were available, and staff were able to collect contact information and line up interviews with students. In total, 16 of the 19 students the Libraries interviewed were hired.



Left: Student workers in the Information Technology department chat with career fair attendees about job opportunities. Above: Library Technician Michael Edwards talks with student attendees and hands out information sheets for students to fill out.

## Overnight Hours Return to Hill and Hunt Libraries, Fall 2015

STARTING  
**AUGUST 19**  
THE D. H. HILL AND  
HUNT LIBRARIES  
WILL BE **OPEN** **24/5**

VISIT OUR HOURS PAGE FOR MORE DETAILS

### Save the Date! Friends of the Library 2016 Spring Events.

**Friday, March 18:** Friends of the Library Spring meeting with a lecture and reception for the opening of the *"Plan—and Plant for a Better World"* exhibition, which will showcase the life and work of J. C. Raulston.

**Wednesday, April 6:** The Special Collections Research Center presents Landscape Architecture at the NCSU Libraries with a Special Collections "show and tell" followed by a panel discussion "Landscape Architecture- Embracing our Past, Engaging our Future," and a reception.



# Libraries Staff Give Back to the Community

The NCSU Libraries Community Service Committee plans and arranges a calendar of service opportunities for staff throughout the year. Here is an update on some of the work our staff members have done to give back to our local community organizations.

## **Adopt-a-Stream – Centennial Campus Stream Walk (April 2015)**

The NCSU Libraries Community Service Committee has adopted a wet weather stream on Centennial Campus. On our inaugural walk, six NCSU Libraries employees identified possible sources of pollution and collected a total of six bags of garbage from the stream.

## **The Hub Farm of Durham Public Schools – Work Day (May 2015)**

The Hub Farm is a 30-acre farm, woodland, and aquatic habitat where local area students, teachers, and community members grow food and learn about agriculture, food systems, and natural science. On this visit, six volunteers prepped a garden bed, mended and moved deer fencing to extend the garden, and built a gate.

## **Museum of Natural Sciences – Collection Inventory (June 2015)**

During the first of three scheduled community service events at the NC Museum of Natural Sciences, staff had a blast working with Linda Saah and her regular volunteer, Camille, cataloging and taking inventory of specimens in the Teaching Collection. Consisting of an assortment of wild animal pelts, skeletons, shells, and other specimens, the collection is used for hands-on teaching opportunities in the museum.

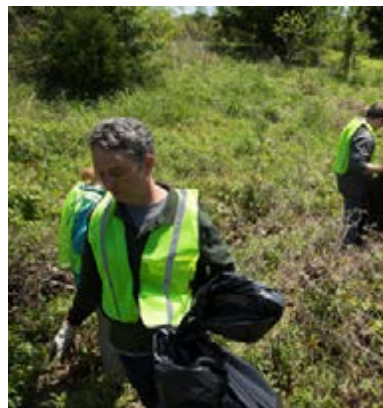
## **Inter-Faith Food Shuttle – Field Gleaning (October 2015)**

The IFFS Field Gleaning program connects groups of volunteers with local farms that have excess (often oversized or irregular) produce left in their fields to donate. During

this gleaning event, Libraries staff helped to harvest sweet potatoes—enough to fill a truck — which will be distributed by IFFS through their mobile market. Although this work involves physical labor, getting dirty, and everything else that comes with working in a field in potentially hot sun, it tends to be one of the more popular service opportunities among our staff. Last year's October gleaning brought in 3,162 pounds of sweet potatoes, and this year's total is expected to be just as impressive!

Libraries staff are encouraged to take part in these service projects using the Community Service Leave granted to state employees. Friends of the Library members are also welcome to suggest service projects to our community service committee.

Clockwise from below: Staff members take a break after setting posts for a new gate at the Hub Farm; Jordan Moose from our Building Services department gathers sweet potatoes; Libraries staff make new friends while cataloging specimens in the Museum of Natural Science's teaching collection.





# Libraries Hosts Puppet Exhibit

*Life's Little Dramas: Puppets, Proxies, and Spirits*, currently on view in D. H. Hill's gallery, has been a popular attraction for both young and old, students and visitors alike. Just check out the guest book, brimming with comments in four languages. Conceived and curated by NC State's Gregg Museum of Art & Design, the NCSU Libraries is pleased to host this exhibit while the Gregg awaits construction of its new building slated to open in 2017. Selected from a recent gift of international puppets from John C. Henry of Durham, NC, along with many additional pieces on loan, the material is the perfect scale for the Libraries' intimate, museum-quality cases.

Puppetry is an age-old art form—examples have been found in Egyptian tombs, and miniaturized



dramas were popular with the ancient Greeks—but puppets also played a major role in the development of technology and media. The first-ever televised



image (in 1928) was an articulated Felix the Cat. Meanwhile, Howdy Doody (a handsome 1950s toy example is on display) was the first program to air five days a week.

*Life's Little Dramas* is a perfect destination for a family outing, where a complete Edwardian-era "Punch and Judy" troupe; Indonesian *wayang kulit* shadow puppets; and marionettes from India, Sri Lanka, and the Czech Republic; as well as an array of robots built by the Triangle Amateur Robotics club, will entertain, inform, and delight. And, please sign our guest book!

The exhibit is open to the public during normal library hours through February 28, 2016. For more information, visit [lib.ncsu.edu/exhibits](http://lib.ncsu.edu/exhibits).



# Creativity and a Critical Eye

Medicine is both a science and an art. The skill of critical vision is an important connecting feature enabled through veterinary students' engagement with the arts. NC State College of Veterinary Medicine (CVM) faculty have found the requisite partnership and passion for this engagement in the staff and spaces of the NCSU Libraries.

Dr. Michael Stoskopf, a Professor of Wildlife and Aquatic Health and an artist in 2-D and 3-D wood sculpture, has taught a week-long selective in veterinary illustration since 2012. Through life drawing instruction, his selective facilitates hand-eye coordination, careful observation, and rapid rendering. Students practice drawing at the Teaching Animal Unit at CVM, aquariums, zoos, and conservation organizations while also learning to observe animals closely. Students also draw from reference photographs, using a variety of artistic rendering techniques. As far as prior formal training in artistic endeavors goes, the students vary extensively, but the nature of the studio course allows even the most advanced

students to develop their skill sets. Students with little or no formal art training make tremendous progress in their ability to render esthetically pleasing and insightful works.

When the William Rand Kenan, Jr. Library of Veterinary Medicine (VML) was redesigned in the summer of 2008, the entrance featured seven porthole-like spaces for artwork. CVM photographer Wendy Savage's beautiful aquatic photographs were the inaugural exhibit, followed by historical photographs from Dr. Terrence Curtin's publication on the founding of the college. Once VML Director Kristine Alpi became aware of the

veterinary illustration selective, it seemed obvious to the Library & Educational Resources Committee how fabulous this space was for highlighting CVM student artwork. Ms. Alpi has a degree in the History of Art and was an intern at the Collezione Peggy Guggenheim in Venice, Italy, so it was a perfect fit. She and Stoskopf shared a desire to increase vet student exposure to the arts, which grew the Libraries' role in promoting art by and for the students. Dr. Stoskopf invited both Ms. Alpi and VML Associate Director Dr. Carol Vreeland to participate in the studio jury that occurs on the final day of the selective, discussing the work and the process with the students. CVM faculty and staff artists and the illustrators and photographers of the CVM Media and Design group also jury work.

The jury selects seven examples of student work that display different techniques as well as a diverse range of species. As there are more than seven students and they produce many wonderful pieces, a broader selection of work rotates through on the eboard display in the VML. The selected works are also featured in public posts on the VML blog. In July 2013, the drawing "Shark" by Dr. Lori Westmoreland (DVM Class of 2013) was featured on the main NCSU Libraries web site to call attention to the exhibit.

Like all NCSU Libraries, the VML is open to the public, and many families of future veterinarians visit us. It is great fun to talk with the children who love to draw animals about the fact that vet students continue to create and be inspired to look closely at the animals they study. During the CVM Open House and events such as Dog Olympics, library staff encourage visitors to draw their favorite animals on whiteboards. The VML also lends horse and dog drawing mannequins. The Libraries creates cultural aware-



Below: Portholes in the vestibule of the Veterinary Medicine Library feature student artwork from life drawing classes. Right: Visitors are encouraged to draw their favorite animals on whiteboards in the Library.







ness opportunities for students to engage with art outside of NCSU as well. In 2013, Alpi led a CVM Cultural Awareness module of over 20 students, faculty, and friends on a tour of "Animals in Art" at the NC Museum of Art.

Collaborations between the CVM and the College of Design (COD) have found an audience at the Libraries. The public display of the Zoological Teaching Animal Unit (ZTAU) at the Hunt Library was the first use of the new Teaching and Visualization Lab in 2013. The 270-degree projection and animation display was reprised so the Provost could see the students' work. This early joint display was for a landscape architecture studio course in collaboration with zoological medicine-focused students. Early working design meetings for that studio were held at the VML. The studio, co-directed by Dr. Stoskopf and Fernando Magallanes from the Department of Landscape Architecture, met in the Hunt Library to share the work with CVM administrators and cabinet members after an initial orientation to the space by Design Library Director Karen DeWitt. One of the resulting physical models—a cardboard,

topographical model of the proposed re-landscaping of the vet school campus created by the landscape architecture students and the veterinary students and faculty, is housed in the University Archives in the Libraries' Special Collections Research Center.

From September through November 2014, the VML hosted models and plans for another collaboration, this time between the CVM and Dana K. Gulling, Assistant Professor in the School of Architecture (COD), for a studio design class looking at the CVM dairy and its beloved cows, visible out the windows of the library.

On September 11, 2015, the carnivore portion of the redesigned ZTAU building was dedicated by COD Dean Marvin Malecha and CVM Dean Paul Lunn with a walnut dedication plaque created by COD graduate students.

These experiences in Libraries spaces and with Libraries staff have been a labor of love for the involved faculty, staff, and students.

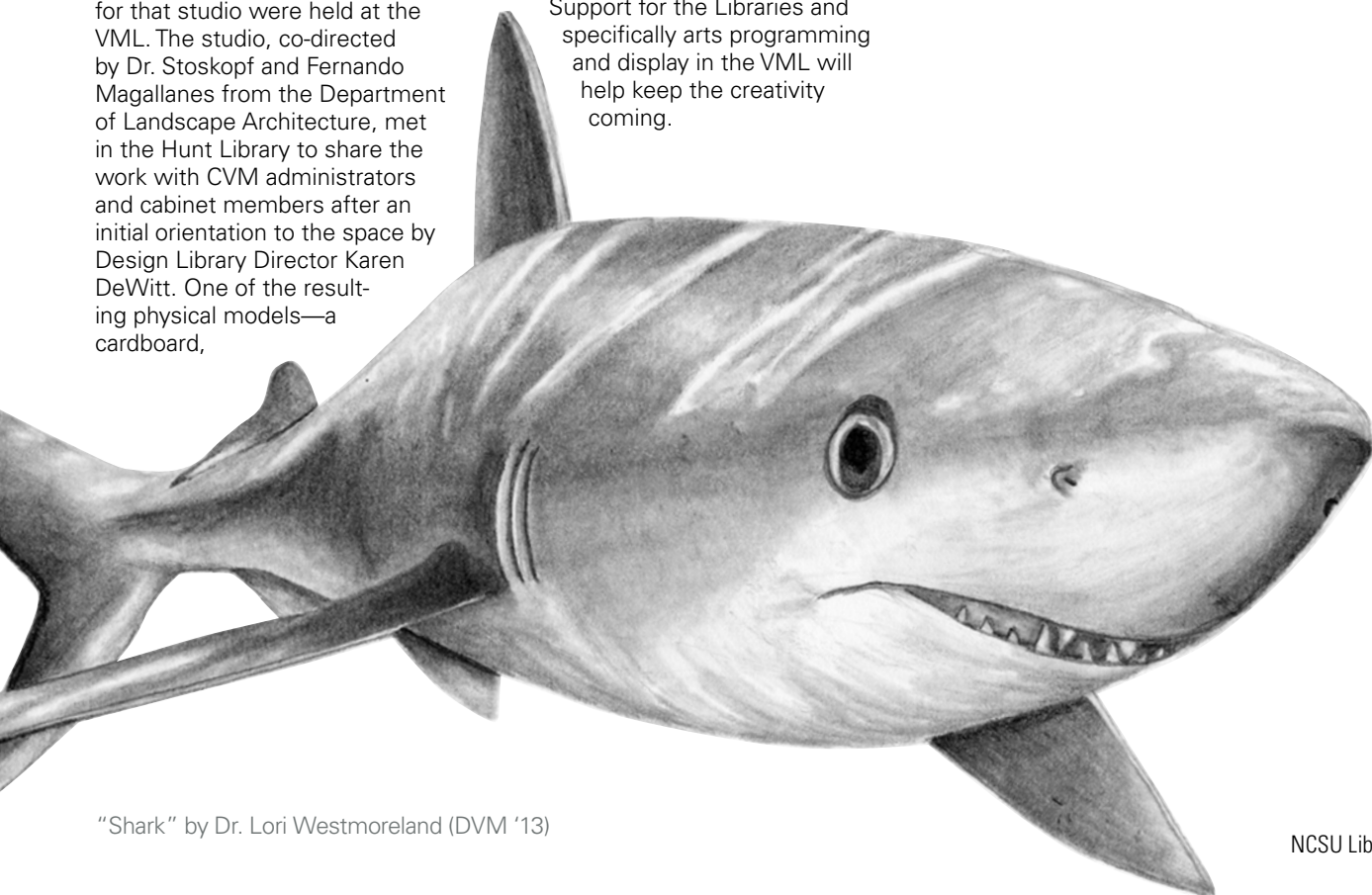
Support for the Libraries and specifically arts programming and display in the VML will help keep the creativity coming.



Read more about these collaborations:

Magallanes, F., Stoskopf, M.K. & Royal, K.D. 2015. Building Collaborative Learning Opportunities between Future Veterinary and Design Professionals. *Journal of Education and Training Studies*, 3(5): 43-51. <http://redfame.com/journal/index.php/jets/article/view/852/849>

Left top: Horse and dog mannequins are available for students to borrow. Above: Designs and models by College of Design Architecture students for the Teaching Dairy Barn on display in the Vet Med Library.



"Shark" by Dr. Lori Westmoreland (DVM '13)



Steve and Phyllis Rea  
seated on one of their  
named benches at the  
Hunt Library



## Donor Spotlight: **Steve and Phyllis Rea**

# “It’s Time for Us To Give Back”

### STEVE AND PHYLLIS REA

Steve Rea’s love of libraries began as a young child, when he discovered a book series called Tom Swift by Victor Applegate. The books, written in the early 1900s, were “thoroughly immersed in technology,” recounts Steve, “so they were talking about devices that hadn’t been made yet....the writer was very forward thinking.” He credits that experience as the first trigger that inspired him to pursue a degree in engineering, and that eventually led him to NC State.

Last year, Steve and his wife, Phyllis, decided to honor NC State by becoming donors to the NCSU Libraries. “By giving back,” they said, “you can have a long-term impact on people’s lives.” Now Friends of the Library Life Members, the Reas have made subsequent gifts to the James B. Hunt Jr. Library. They most recently established the Stephen and Phyllis Rea Endowment for Mechanical Engineering Collections, in order to provide resources for all students, and particularly those in the College of Engineering, to prepare them for professional life after graduation. These resources are also useful for the university’s valuable, leading-edge research into traditional and renewable power production.

When asked about the importance of giving back to libraries, Phyllis reiterated, “Most of us don’t realize the significance of a library. Without a library, the university would be nothing.”

The Reas’ appreciation for libraries grew when they first visited the Hunt Library in November 2014. Steve and Phyllis watched students interacting in new ways with new technologies, and saw firsthand that libraries are prioritizing students’ needs. “For decades, libraries were pretty static places, with great value,” says Steve. “The Hunt Library has brought the library to life, and it gets people excited about research and collaboration. The Library has become a ‘hub’ for the entire institution, and other universities are seeing the success and value of what you are doing.”

The evolving nature of libraries reminded the Reas of the two people who were most supportive of their own educations—their mothers. The Reas’ gifts to the Hunt Library named two benches on the first floor near the bookBot, one of which was dedicated to their mothers, Gwen Rea and Riddley Young. “We both came from single-parent homes,”

says Phyllis. “My daddy died when I was very young, and Steve’s parents went through divorce when he was very young.” Both mothers raised three very young children. She continues, “Growing up, you have no idea what kind of sacrifices your parents are making...what our mothers did is what so many mothers do, and this was our way to honor their sacrifices.” Steve adds, “My parents had a high-school education, and they both wanted more for us...to be able to do better for ourselves.”

Both Steve and Phyllis took their mother’s advice to heart. Phyllis graduated from Campbell University with a business degree. She taught learning-disabled students at the high-school level for a decade. Then she went on to teach Accounting at Central Carolina Community College for several years. Steve attended NC State and received both his B.S. (‘80) and M.S. (‘87) in Mechanical Engineering. From his days in high school promoting nuclear power, Steve had his sights set on the power market for a career. Inspired during his undergraduate years by NCSU faculty such as Dr. Todd Pierce, Dr. Lloyd Griffith, and Dr. Peter Corson, Steve pursued his graduate studies, during which he had the opportunity to teach thermodynamics and secure a graduate co-op position. Steve

has been employed by the power industry ever since, and currently he serves as Senior Vice President, Power Sales, at Heyward Incorporated in Charlotte.

In his 35-year career, Steve has observed NC State’s great impact on the NC power industry, citing alumni such as Charlie Gates, Senior Vice President of Duke Energy, and he notes that a number of his company’s current clients grew out of connections he made at NC State. “I started running into my

students that I taught in graduate school,” he says, “and I was able to do business with them because of those connections.” Steve’s commitment to the industry was a major influence on his decision to give back to NC State through the Libraries. “I was looking for a way to make resources available that made sense for the power industry,” he says, “that would benefit the mechanical engineering department, and would benefit the Libraries to educate young engineers who might then go on to work in the power industry. The tentacles from NC State reach deep, and we want to be a part of that with a long-term legacy.”

*“Growing up, you have no idea what kind of sacrifices your parents are making...what our mothers did is what so many mothers do, and this was our way to honor their sacrifices...”*

*Phyllis Rea*

While pursuing his degree at NC State, Steve also served as Student Body Treasurer during his senior year and competed on the school varsity soccer team

The Reas with Vice Provost and Director of Libraries Susan K. Nutter after being welcomed as Friends of the Library Life Members in April 2015.







Steve and Phyllis Rea have become broad supporters of the NCSU Libraries.

all four years. He credits these activities with teaching him the value of teamwork and of working with a large constituency to solve problems, something that he encounters in the power industry. Steve was also active in the American Society of Mechanical Engineers (ASME), of which he served as Chair during his senior year. During that time, NC State's chapter was the most active in the Southeast, due to a broad-based effort on the part of Steve and other mechanical engineering leaders to draw on the talents of each member and get them involved.

Steve's leadership with ASME was recognized by then-Governor Jim Hunt, who presented Steve with one of the state's most prestigious awards, the Order of the Long Leaf Pine. Steve and Governor Hunt were reunited at the D. H. Hill Library in 2014 when the Libraries celebrated the Student Leadership Initiative, in which both he and the Governor are featured. Steve sees great value in the Student Leadership project, as it exposes students to a wide array of people who built leadership skills at State and then successfully put them to use in their careers. "If students are motivated and curious," he explains, "they will see so many different leadership models and the benefit of so many lessons learned."

Through their endowment, contributions to the Hunt Library, and participation in the Libraries' Student Leadership Initiative, the Reas have become broad supporters of the NCSU Libraries, which they see as one of NC State's greatest assets. Driven by tremendous gratitude for their education and professional success, Steve and Phyllis are reminded of Andrew Carnegie's vision of a good life. "When Carnegie got older," says Steve, "he looked back and said it was good to spend the first third of your life on education, the second third working as hard as you can, and then in the last third giving back. Now," he says, "it's time for us to give back."

For more information on how you can support the Libraries' collections, **please contact Leia Droll at 919-513-7033 or [ledroll@ncsu.edu](mailto:ledroll@ncsu.edu)**. To learn more about the NCSU Libraries' Student Leadership Initiative, visit **[d.lib.ncsu.edu/student-leaders/](http://d.lib.ncsu.edu/student-leaders/)**.

# Friends of the Library Fall Event

On October 15, the Friends of the Library gathered for its annual fall event, a cocktail hour at the James B. Hunt Jr. Library. The event featured the presentation of the NCSU Libraries Faculty Award to Dr. Barbara Sherman, clinical professor of Veterinary Behavior at NC State's College of Veterinary Medicine, and a presentation by Dr. Jason Miller, associate head of NC State's Department of English. Dr. Miller discussed the discovery and restoration of a recording of the original "I Have a Dream" speech by Dr. Martin Luther King, Jr., delivered at a high school gymnasium in Rocky Mount on November 27, 1962. That recording was unveiled at the Hunt Library recently and covered by the Associated Press, The Guardian, CNN and a host of other major news outlets.



Clockwise from top right: Susan Nutter presents the NCSU Libraries Faculty Award to Dr. Barbara Sherman; guests chat with Dean Jeff Braden, College of Humanities and Social Sciences; Attendees listen to Dr. Miller's presentation; Greg Raschke and T. Greg Doucette, Friends of the Library board member; Dr. Jason Miller discusses his historic discovery.



Images ©Nick Pironio





Clockwise from top left: Attendees chat before the presentations at the Fall event; Susan K. Nutter and Bob Upchurch; Vice President of the Friends of the Library Board Brian Boothe welcomes guests; Robert and Connie Shertz talk with Greg Raschke, Leia Droll, and Susan K. Nutter.



## Friends of the Library Presents Second-Annual Library Staff Award for Advancement to Gwen Emery

The annual Friends of the Library Staff Award for Advancement was created by the Friends of the Library Board of Directors in 2014. The award recognizes a Libraries staff member who demonstrates a commitment to the missions of both the NCSU Libraries and the NCSU Friends of the Library, and who goes above and beyond to help build relationships and partnerships that help to further the Libraries' advancement goals.

The 2015 award was given to Gwen Emery, Director of Library Environments. The board was pleased to honor Gwen's work in designing the next-generation learning spaces at the Libraries that have earned us international recognition, for forging partnerships with key companies and individuals, and for her creation of CHAIRHUNT, a book that documents the rich history of modern design seen and experienced in the furniture at the Hunt Library.

The award comes with a prize of \$1,000 to be used for professional development or to support a project of the recipient's choosing.



Gwen Emery

For information about how you can support this award fund, please contact the Friends of the Library office at 919-515-2841. To purchase a copy of CHAIRHUNT, please visit [www.lib.ncsu.edu/giving/chairhunt](http://www.lib.ncsu.edu/giving/chairhunt).



## Penny Wars Raises a Lot of Coin for the NCSU Libraries

By Nicholas Langhorne

A little pocket change—and a lot of Homecoming spirit—goes a long way.

To benefit the NCSU Libraries, students dropped their coins into buckets during Penny Wars, hosted over Homecoming week by the Alumni Association Student Ambassador Program and the Student Philanthropy Committee.

Thirteen spirit teams from across campus competed to raise the most money over the last week of October in what will become an annual event, raising a total of \$2,160. The team composed of Sigma Nu and Delta Gamma raised the most money during the initiative.

Wilson White (BS 2003 Engineering), a member of the Friends of the Library Board of Directors and Senior Counsel at Google Inc. in Mountain View, California, more than doubled the students' impact by providing an additional gift of \$2,340, to bring the total amount raised to \$4,500.

Olivia Shipp, who chairs the Homecoming Service Committee for the Alumni Association Student Ambassador Program, noted that they chose to direct the program's proceeds to the Libraries because it provides services for students, faculty, and staff in every college and program.

"All students are allowed to utilize the Libraries," Shipp said, "so by choosing to support [it], we are able to support the entire student body and not just a selected portion. Everyone that helped raise the money can see their direct impact within the Libraries."

White presented at the D. H. Hill Library in March as part of the Libraries' "Amazing Alumni" series. He talked about his career after graduating from NC State and



his work at Google, where he manages public policy outreach and advises on global policy implications of Android, Play, Google Glass and wearable products.

"I was excited to hear about the student-led penny war initiative," said White, who was a Park Scholar. "The great work of our libraries is a critical component of an NC State education."

In addition to raising money for the Libraries, the fundraiser also provided an opportunity to teach students about the importance of philanthropy. Shipp said she hopes students will be encouraged to participate in other philanthropic events, benefiting both NC State and the entire community.

"I think most students feel making a difference in our society is really only done in large-scale programs," Shipp said. "The penny war helped show that something that seems so small, like donating a few extra coins, is actually part of a bigger picture."



Students talk about their love of the Libraries in this video from the Penny Wars event. Visit [vimeo.com/147767723](https://vimeo.com/147767723).



# In Memoriam: Dr. J. Lawrence Apple (1926-2015)



In addition to the Libraries, Lawrence and Ella have generously supported the plant pathology department and the College of Agricultural and Life Sciences. Because of Dr. Apple's extraordinary service and philanthropy to his alma mater, he was awarded the prestigious Watauga Medal in 2009, the highest non-academic honor bestowed by NC State.

In retirement, Lawrence enjoyed farming on his ancestral home in Gibsonville with extensive garden crops and a peach orchard. Family and friends were the grateful recipients of those bountiful crops.

Dr. Apple is survived by his loving wife of 69 years, Ella Holt Apple; sisters-in-law, Lorraine Apple, Thelma Holt Lowe, and Anne Holt; as well as four nieces and six nephews.

The NCSU Libraries and the Friends of the Library will be forever grateful for Dr. Apple's extraordinary and exemplary legacy of philanthropy, service, and advocacy.

To make a memorial gift to the J. Lawrence and Ella Apple Endowment, please contact Leia Droll at 919-513-7033 or at [ledroll@ncsu.edu](mailto:ledroll@ncsu.edu).

Below: the Apples visited the Hunt Library and the Apple Technology Showcase named for them in May of 2013.

It is with heavy hearts that we announce the passing of Dr. J. Lawrence Apple, Professor Emeritus of Plant Pathology and one of the NCSU Libraries' most dedicated and beloved supporters.

A native of Guilford County, NC, Dr. Apple was drafted into the Army on July 28, 1944, and was awarded a bronze star. He married his high school sweetheart, Ella Holt Apple, on October 3, 1945, and they enjoyed a long and happy life together. As a recipient of the GI Bill, Lawrence earned three degrees from NC State, including a Ph.D. in plant pathology and genetics in 1955. He served on the faculty from 1955 to 1991, including tenure as the College's director of the Institute of Biological Sciences and then as associate director of research and international programs. Dr. Apple is widely known for his work in international agricultural development, including serving as adviser for NC State's mission to Peru, laying a foundation for a research program that would deliver sustainable solutions to world hunger.

As president of the Association of Retired Faculty, president of the Friends of the Library Board of Directors, and a member of the Forever Club executive committee, Dr. Apple was a tireless advocate for the Libraries. In 1994, he and Ella established the J. Lawrence and Ella Apple Library Endowment, and in 2010 they provided a generous gift to name the Lawrence and Ella Apple Technology Showcase, one of the first spaces our visitors encounter in the James B. Hunt Jr. Library.



**THINK.  
DO.  
MAKE.**

NEW MAKERSPACE  
AT D. H. HILL  
INSPIRES INNOVATION





**IN ITS FIRST SEMESTER OF OPERATION, THE NEW MAKERSPACE HAS SPARKED NEW IDEAS IN TEACHING AND LEARNING—AND A DRESS THAT LIGHTS UP THE NIGHT.**

**I**t is the December exam period, and impending finals have packed every nook and cranny of the D. H. Hill Library with stressed-out students—except in the Makerspace. Amid the low din of a laser cutter and 3D printers, Wilson Wooten smiles down upon a three-inch, white Quid-ditch tower. It's part of a present that the Applied Mathematics sophomore is printing for a Harry Potter-obsessed friend, and it looks impossibly perfect.

Wooten is one of over 10,000 students, faculty, and staff who have visited the hands-on Makerspace in the D. H. Hill Library since it opened on June 16 last

year. Building on the success of the Hunt Library's maker program, the D. H. Hill Makerspace offers an open, do-it-yourself learning environment where all NC State students, faculty, and staff are encouraged to experiment and learn new hardware and software skills.

**OPEN TO ALL**

In just one semester, the D. H. Hill Makerspace has become a springboard for student entrepreneurship and innovative faculty curriculum development. Its easy-access model has sparked creative experimentation and cross-disciplinary collaboration from the moment its glass doors were opened, adjacent to the library's first-floor lobby.

"At the Hill Makerspace, we've tried to lower the barriers to access as much as possible in terms of cost, software availability, and ease of use and learning,"

Library Fellow Lauren Di Monte orients students to some of the technologies available in the Makerspace.





The Makerspace offers a variety of electronic modules, parts, and kits for users to explore, experiment, and play.



says Adam Rogers, Emerging Technology Services Librarian. “We really let students get their hands on the tools and machines. There’s sort of a do-it-yourself route here at Hill, and a more mediated, high-tech service over at the Hunt Library Makerspace.”

While the Hunt Makerspace, located on the library’s fourth floor, offers 3D printing and technology lending services, the Hill Makerspace turns the operation of an expanded set of equipment, tools, and resources over to users. This direct access is expressed architecturally through the Hill space’s two glass walls and its prominent location near the Ask Us center and Learning Commons on Hill’s bustling first floor.

Featuring MakerBot and LulzBot 3D printers; Arduino, Galileo, and Raspberry Pi electronics prototyping platforms; Bernina sewing machines; an Epilog laser cutter; and an electronics workstation with a Hakko soldering iron, students aren’t just printing out files. They’re refining models for product pitches, mashing up different technologies, seeding startup companies, and launching careers in emergent fields.

The space also offers a “tinkering table” for drop-in users, including hands-on making tools like LittleBits, 3Doodlers, LEGOS, and MaKey MaKeys. These interactive experiences help stir users’ creative thinking and get them making on their first visit.

Likewise, faculty have recognized the Hill Makerspace as an incubator for innovative pedagogy. By taking the lid off of technologies traditionally thought of as a closed black

box, faculty members challenge students to make critical insights about how media and materials shape the human experience.

## LIBRARIES STAFF HELPS POWER INNOVATION

But access alone isn’t self-activating. The NCSU Libraries

staff has provided invaluable expertise in disciplinary research, industry and market research, patent searching and filing, digital product development, data management, and curriculum development, establishing a collaborative spirit in the busy 900-square-foot space.

“The staff was absolutely fantastic,” says Dr. Paul Fyfe, an associate professor and coordinator of Digital Humanities in the English Department. Fyfe wanted to incorporate a makerspace project into his “Science, Technology, Society” Honors seminar (HON 296). Students in this course studied *Between Page and Screen*, a “digital pop-up book” collaboration between poet Amaranth Borsuk and programmer Brad Bouse that displays textual animations through a webcam trained on the book’s pages. Then Fyfe challenged his students to apply such ideas to books they had made earlier in class.

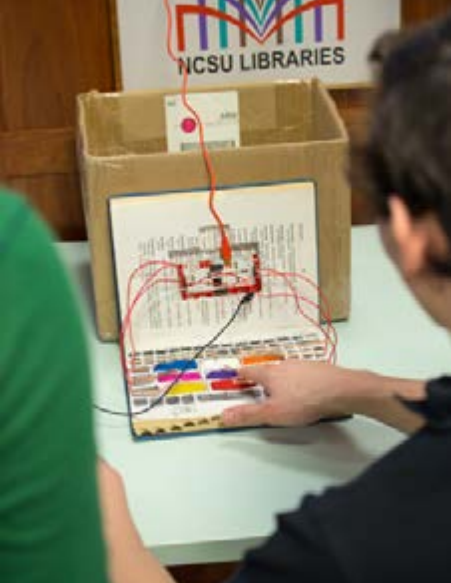
“My original plan for the course was to take books that we had made and augment them in the makerspace,” he says. “Adam Rogers and other Makerspace staff suggested that it would be best to let the students go where they gravitated. And that’s what we did.”

To help engage his students with a critique of media forms and production, Fyfe consulted on curriculum possibilities with Libraries staff. The result was a visit to the Conservation Lab on the D. H. Hill Library’s

Dr. Paul Fyfe’s Honors English seminar gathers to view their final presentations in the Multi-media Seminar Center at the D. H. Hill Library.







ground floor for a hands-on bookbinding workshop with Preservation Librarian Jamie Bradway, and a Makerspace tour through communications technologies history with Libraries Fellow

Lauren Di Monte and Jessica Handloff, the NCSU Libraries Graduate Research Assistant in the Communication, Rhetoric, and Digital Media program. After training students on the equipment, Di Monte and Handloff let Fyfe's students loose in the space to generate project ideas for class.

"I have to admit, on the first day we were in the Makerspace, I was anxious," Fyfe laughs. "It was an experiment. But the staff know better than instructors about the pedagogical value of play and tinkering."

"If you are just teaching people what to do, that doesn't really afford the kind of creative reflection, adaptation, and experiment that just being in the Makerspace without rigid expectations provides."

One of Fyfe's groups used a Raspberry Pi to incorporate a motion-sensitive camera into a book that surveils its reader, sparking class discussions about data collection and privacy issues in contemporary media. Another group designed and laser-cut a social media board game called "Monopopular," which treats "likes" and friends as currency in an informational economy, and for which a player 3D prints individualized game pieces using a selfie or other icons or avatars.

Another group 3D scanned and printed one of the team member's hands, making the letters "NCSU" in the American Sign Language alphabet, evoking Gutenberg's moveable type in what Fyfe calls a thoughtful yet "wonderfully perverse meditation on the history of printing." Some of the projects will be on display in the Hill Makerspace during the Spring 2016 semester.

"It's a delight that this kind of pedagogy and these resources are so in accord with where the university is trying to go as a whole with 'Think and Do' and



Craig Goff, Susan K. Nutter, Rob Connelly, and Adam Rogers

## ALUMNI LEAD PRIVATE SUPPORT OF NCSU LIBRARIES' MAKERSPACE

Where some see a simple idea or tool, others see a whole new business sector. NC State has fostered that kind of visionary thinking throughout its history, counting many notable entrepreneurs among its alumni. The same innovative spirit is brewing in the NCSU Libraries' Makerspaces, thanks in part to donations from two alumni entrepreneurs.

Robert Connelly ('87) and Craig Goff ('83 '85 M.S.) are no strangers to the transformative possibilities of the 3D printers in the NCSU Libraries' Makerspaces. In 2001, Connelly founded Fineline Prototyping, a leader in rapid prototyping and additive manufacturing. He soon recruited Goff, and they grew Fineline's business rapidly for over a decade. Minnesota-based ProtoLabs bought Fineline in 2014.

Recognizing the potential of wide access to making technologies for the next generation of NC State students, Connelly and Goff became some of the first donors to support the new D. H. Hill Library Makerspace. "When we talk to people who visit us at ProtoLabs," says Connelly, "we find that the younger students are the ones who really see the value in free-form geometry that 3D printing makes possible. They see that it can solve problems that were previously impossible due to the limitations of conventional manufacturing."

Both Connelly and Goff now count themselves among NC State parents, as well, with a freshman and senior in the College of Engineering, respectively. They have a new appreciation for, and investment in, the university's progressive nature. "NC State is constantly reinventing itself as it moves forward to take best advantage of the technologies and best practices of the day," Connelly says. "As a parent, that gives me confidence that my children will be well positioned to enter the workforce with valuable skills and perspectives."

Philanthropic contributions allow the NCSU Libraries to support, expand, and promote its Makerspace activities and offerings. We are grateful for the support of Robert Connelly and Craig Goff, as well as Glen Raven, Inc., NC State University Foundation, Inc., Autodesk, and SparkFun Electronics.

To learn more about giving to the Libraries' Makerspaces, please contact Leia Droll at [ledroll@ncsu.edu](mailto:ledroll@ncsu.edu) or 919-513-7033.



Above: A student from Dr. Paul Fyfe's Honors English seminar presents 3D printed hands spelling "NCSU" in American Sign Language. Below: Victoria Rind's bioluminescent dress.

the Quality Enhancement Plan's emphasis on creativity and critical thinking," Fyfe says. "It's not solely about entrepreneurship in that it supports humanities ideas and perspectives in concert with engineering and other STEM disciplines."

## STUDENTS GET PLUGGED INTO THE MAKER MOVEMENT

Victoria Rind exemplifies the potent knack that Makers have for crossing the humanities and sciences. A

junior studying Textile Engineering, Rind has gone from messing around with wearable technology to an accelerated career path in a matter of months. But she's matter-of-fact about it—e-textiles are precisely what she came to NC State to do.

Seeking to incorporate her interest in fashion into her electrical engineering studies, Rind transferred from SUNY New Paltz to NC State's College of Textiles. When she tried to get a job running the 3D printer at the Hunt Makerspace, she found they were already fully staffed. But the Libraries wondered if she would be interested in helping set up a new, hands-on makerspace at Hill. Rind jumped at that chance.

"When I started working at the Hill Library Makerspace, SparkFun sent in a bunch of wearable microcontrollers," she recalls. "I was told to play around with them, figure out how they worked, maybe write a manual for them. So I started working on a light-up dress. It was the first piece that got me into e-textiles."

The light-up necklace dress that Rind made in the Hill Makerspace was featured on the Adafruit Industries website, and led her to the Nano-EXTended Textiles (NEXT) Research Group in the College of Textiles, where she's conducting undergraduate research in biometric clothing. Another NEXT e-textiles team was one of only five research teams from across the university to receive support from the Chancellor's Innovation Fund this fiscal year.

"The Hill Library Makerspace gave me that opportunity to put in the time to learn how to do basic e-textiles, and from there I've moved on to bigger things," she says, such as pitching prototypes to the Victoria's Secret Sport innovations group and blogging for IBM's Big Data and Analytics Hub. Rind is also currently collaborating with fashion designer and NC State alum Jazselyn McNeil on a bioluminescent clothing line that visibly responds to a wearer's heart rate. Their e-textile fashions have been nominated to be featured in the Hall of Fame at Charleston Fashion Week in March 2016.

"It's really cool," she notes, "and it's exactly why I came to NC State. It all goes back to learning the basics in the Makerspace. From there, I gained confidence and taught myself how to use lots of other things like a Bluetooth chip and so on.

"I think everyone should get into e-textiles because no one's in it right now. Literally anything you do, people are interested in it."

## NCSU LIBRARIES MAKING WAVES ON THE NATIONAL STAGE

Last June, just before opening the D. H. Hill Library Makerspace, Rogers and Library Technician Dan Hawkins traveled to Washington D.C. to attend the National Maker Faire at the University of D.C. and the first Capitol Hill Maker Faire at the Rayburn House Office Building—all part of the White House's National Week of Making.

Open to the public and members of Congress, the Capitol Hill Maker Faire was hosted by the federal Institute of Museum and Library Services (IMLS) in collaboration with the Congressional Maker Caucus, the Maker Media media company, and the Nation of Makers initiative. Rogers and Hawkins took in approximately 30 hands-on



Image courtesy of Victoria Rind





company that manufactures high-performance 3D printers, shared the story of his career.

In a panel talk, Rind joined Aly Khalifa, NC State alumnus and co-founder of Designbox, and Dr. David Rieder, associate professor at NC State and co-founder of CIRCUIT Studio, to discuss how the Maker movement is impacting business, culture, and academia. Throughout the four-day event, library staff and student workers led tours and orientation sessions in the new Makerspace and evangelized about its connection to the Libraries.

“There’s a sense in which, early on, this felt like this fringe thing that we were doing—3D printers don’t necessarily look like library activity,” Rogers says. “But what we’ve really connected it to is informational literacy, digital literacies, and how a library is a space that’s an intersection of physical spaces, collections of resources, technology expertise, and a knowledgeable and capable staff—all that and service to the communities we have on campus. All of those things are very much present in the Makerspace project.”

Rogers has been impressed by the amount of use over the Hill Makerspace’s first semester and thrilled by the number and diversity of courses he has worked on during a fast-paced half-year of operation. However, reflecting on the Makerspace so far, Rogers comes back to the physical space in Hill. Sitting at one of the workspaces, he gestures to crowds of students crisscrossing the lobby, many of whom crane their necks to see what’s going on in the Makerspace.

“This glass wall has been the most exciting part—its visibility from the lobby and the amount of light it brings into the center of the library. It’s a physical representation of the values of the library—openness, democratizing access to anyone on campus regardless of their discipline or expertise.”

Left top: Maker Days gave visitors to the library a chance to tour the new Makerspace for a hands-on experience with its technologies. Bottom: Alumnus Chris Padgett talked about his career and demonstrated the 3D printers he makes with his company, Fusion3.

exhibits of robots, 3D printers, and other maker technologies and tools, as well as a series of panel discussions in which leaders of the Maker movement talked about its impact on the economy, education, and community development.

“It was kind of like a science fair,” Rogers says. “We were tabling and talking to people about NC State and what this movement looks like inside of an academic library on a college campus in an interdisciplinary sphere. We were alongside some folks from museums, some public library folks, people more like individual entrepreneurs.”

They returned to Raleigh before the National Week of Making ended for the grand opening of the Hill Makerspace.

## MAKER DAYS

In August, as students returned to campus to see the Hill Makerspace for the first time, the Libraries hosted Maker Days, a series of events and workshops in Hunt and Hill Libraries.

As part of Maker Days, Eliot Inman, a Manager of Software Development at SAS, held a workshop in building an analog sensor using an Arduino and a product representative from Autodesk led a workshop in Computer-Aided Design (CAD). Alumnus Chris Padgett, founder and CEO of Fusion3, a

**“It’s a physical representation of the values of the library—openness, democratizing access to anyone on campus regardless of their discipline or expertise.”**

**-Adam Rogers**

# LIBRARY STORIES

## Library Staff help to tell stories of everyday innovation and collaboration

Below top: Students in the Women in Science and Engineering (WISE) program participate in a Makerspace digital textiles workshop. Bottom: Librarians working with students in Dr. Susanna Lee's Digital History class scanning artifacts from North Carolina's history.

**D**r. Tom Shriver of NC State's Department of Sociology & Anthropology studies social movements, political sociology, and environmental justice, particularly in Eastern Europe. During the summer of 2014, he submitted a grant proposal to study how "authoritarian systems negatively characterize protesters... to protect their own legitimacy and justify the use of harsh repression."

But his research was conditionally funded, pending revisions to a data management plan (DMP) required by the funding agency. With more experience doing research than writing data management plans, and with only two days to return the improved plan to the National Science Foundation (NSF), Dr. Shriver turned to the NCSU Libraries for assistance. Several librarians worked with Dr. Shriver to review his DMP, gave him immediate feedback, and provided actionable suggestions for improvement, several viable options for long-term storage of the data and the publications resulting from his research project.

Every day, the NCSU Libraries enables its users to accomplish new things with

the help of its rich collections, services, technologies, and staff expertise. And staff are using the Libraries' next-generation learning and research spaces to facilitate innovations in research data visualization and pedagogical design. Typically, however, these interactions are ephemeral, and the evidence of a rich collaboration often disappears as soon as everybody leaves the room.

But what if library staff, while working directly with users on the ground, could capture stories and examples of collaboration, teaching, learning, and research that make the Libraries such a vital place? Last year, Kim Duckett, former associate head of Research and Information Services (RIS), had an idea to give staff a set of tools and a framework to capture their own stories of innovation and collaboration. When she pitched the concept to staff in various departments throughout the Libraries, Duckett discovered consensus: people wanted a way to share their success stories and to show the university community how we can be their competitive advantage.

Duckett sensed the project would fill an unmet need and formed an ad hoc team of staff members with stories to prototype the concept. The team also gathered a diverse set of skills—from storytelling to editing to web development—necessary to build the Library Stories idea.

The team spent several months refining the scope and mission of the Library Stories concept, developing a handful of initial story ideas, and building a website infrastructure to present the stories. Finally, in summer 2014, the team presented the first set of stories to an assembled group of colleagues, encouraging them to consider their own work for potential





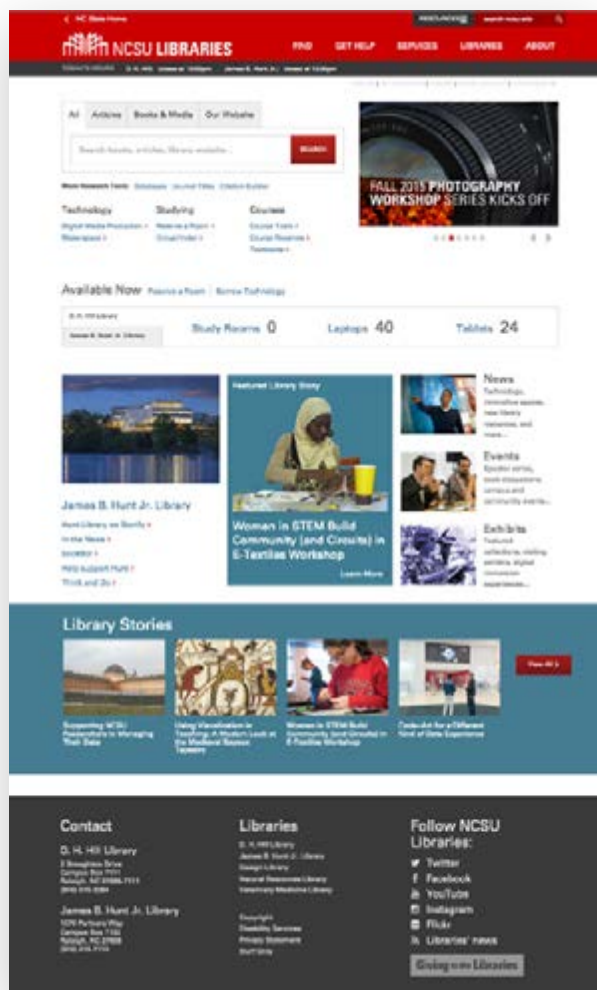


stories henceforth. Library Stories, they emphasized, is not just a web page with a set of stories. It also prompts staff to think about their work differently and to see their daily innovations with fresh eyes.

Library staff have responded positively to this call to action. Fifteen more stories of innovation and collaboration have appeared to date. The current

set of stories, from various departments across the Libraries, reflects the diversity of interactions that staff have with library users. The stories also vary in length and with the types of media used to aid the storytelling. But every story features a unique way that our library staff are engaging and collaborating with students, faculty, and each other to advance teaching and learning.

Above: Dr. Julie Mell's students learn about an ancient tapestry in a collaboration with librarians in the Teaching & Visualization Lab at the Hunt Library. Left: The Libraries' homepage presents featured stories from the Library Stories project.



The Library Stories team has evolved over time and now consists of Anne Burke, undergraduate instruction and outreach librarian (RIS); Jason Evans Groth, user experience librarian for Digital Media; Erik Olson, technical support specialist (User Experience); Jamie Bradway, preservation librarian; Marian Fragola, director of program planning and outreach; and Chuck Samuels, director of publications (External Relations). The team's diverse composition lends a variety of technical strengths and, more importantly, opens it to discovering more stories to tell.

The Library Stories website is not the end of life for these stories. The Libraries' External Relations team is now supporting the Library Stories initiative through editing, image and media development, and promotion of the stories as part of the "ecology" of Libraries news on our website, through social media and the Libraries News blog, and in the pages of *Focus* magazine. The Library Stories initiative is also helping to enhance and strengthen the Libraries Communications team's ongoing efforts to engage with library staff to better tell their stories through these existing media platforms. Read more about Dr. Shriver's interaction with Libraries staff at [lib.ncsu.edu/stories](http://lib.ncsu.edu/stories), and look for Library Stories features in upcoming issues of the *Focus*.



NCSU Libraries Special Collections Research Center

A group gathered for the 4-H Council Meeting for National African American 4-H Radio Broadcast and Club in Halifax County, NC, 1939.

# NCSU LIBRARIES RECEIVES LSTA GRANT

**Funding will support the digitization of transformative agricultural extension documents**

The North Carolina State University (NCSU) Libraries has been awarded a \$98,997 grant to support the digitization project, “Better Living in North Carolina: Bringing Science and Technology to the People,” a collaboration with North Carolina A&T State University’s F. D. Bluford Library. The project serves students, faculty, researchers, and the general public by digitizing and making easily available online an important body of primary agricultural extension documents that reveal the scientific and technological transformation of North Carolina’s agricultural economy during the twentieth century and the ways this transformation improved the lives of its citizens.

The funds to support this work were awarded by the State Library of North Carolina and are made possible through funding from the federal Institute of Museum and Library Services (IMLS), under the provisions of the Library Services and Technology Act (LSTA) as administered by the State Library of

North Carolina—a division of the North Carolina Department of Cultural Resources. These federal funds are investments that help libraries deliver relevant and up-to-date services for their communities.

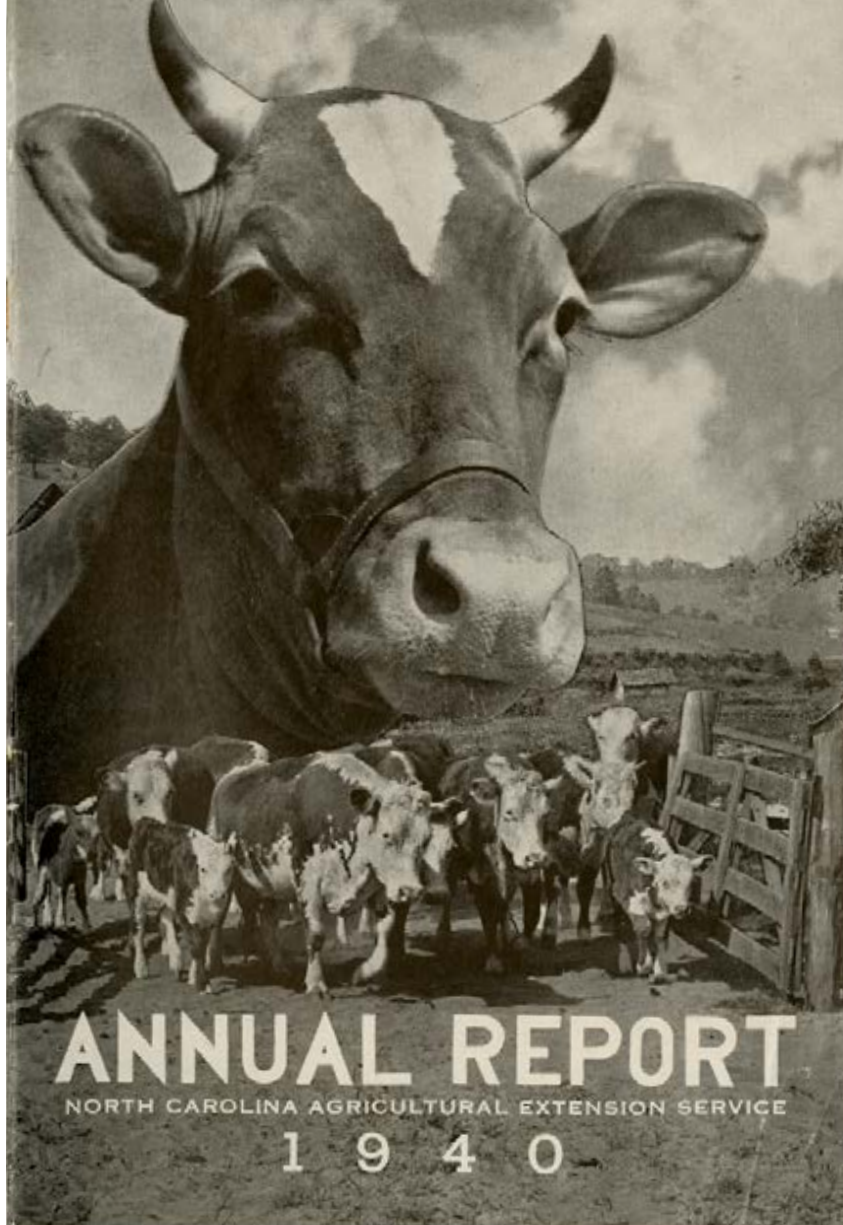
The materials digitized through “Better Living in North Carolina” document the advances of modern agricultural practices and their economic impact across the state. During the time period covered by the project, farming in North Carolina moved from subsistence levels to the production of global commodities—a shift driven in part by research and development done at NC State University. Throughout the twentieth century, as this shift occurred, Cooperative Extension programs—based at NC State and NCA&TSU—helped North Carolina farmers and agricultural businesses learn and apply new research in the agricultural and life sciences. Specific programs run by Cooperative Extension during this time have included 4-H, Family and Consumer



Sciences (originally called Home Demonstration and Home Economics), various farm animal programs (such as poultry extension, swine extension, etc.), boll weevil eradication, soil conservation, rural electrification, plant disease clinics, rural development, and food and nutrition education. During the world wars, there was an emphasis on food production and preservation.

During the first year of the project, the NCSU Libraries will digitize up to 252,000 pages of Cooperative Extension annual reports from 1909 to 1983. North Carolina A&T State University's F. D. Bluford Library will scan up to 5,000 pages of correspondence, pamphlets, and scrapbooks, as well as photographs, from collections of two prominent African American extension agents.

"Better Living in North Carolina" builds upon the success of other digital projects developed by the NCSU Libraries with the support of LSTA funds. Most recently, the Libraries completed "Cultivating a Revolution: Science, Technology, and Change in North Carolina Agriculture, 1950-1979" ([www.lib.ncsu.edu/specialcollections/projects/cultivating-a-revolution.html](http://www.lib.ncsu.edu/specialcollections/projects/cultivating-a-revolution.html)). The project digitized 41,299 pages of archival documents, 2,741 photographs, and 161 videos and films. Previous agricultural digitization projects include the NCSU Libraries' Green 'N' Growing (<http://www.lib.ncsu.edu/specialcollections/greenngrowing/>), which documents the history of 4-H and home demonstration in North Carolina from the 1900s to the 1970s.



NCSU Libraries Special Collections Research Center

The LSTA grant program administered by the State Library of North Carolina funds projects that help libraries deliver learning opportunities for a lifetime, support libraries in their mission to provide cost-effective access to the Internet and to information expertise, and make library resources more accessible to all users.

The Institute of Museum and Library Services is the primary source of federal support for the nation's 122,000 libraries and 17,500 museums. The Institute's mission is to create strong libraries and museums that connect people to information and ideas.

The North Carolina State Library has posted a list of all LSTA grant awards for 2015-2016. For additional information about "Better Living in North Carolina," contact Brian Dietz, Digital Program Librarian for Special Collections, at [brian\\_dietz@ncsu.edu](mailto:brian_dietz@ncsu.edu).

Covers from the NC Agricultural Extension Service annual reports. North Carolina Agricultural Extension Service Annual Report 1943 - You Have Met The Challenge, and Annual Report of the Agricultural Extension Service of North Carolina State College for 1940.

## Our Library Personnel



Steve Morris

**Steven P. Morris** has been named Associate Director for the Digital Library at the NCSU Libraries.

A national leader in the field of digital libraries, Morris originally joined the NCSU Libraries in 1997 as Librarian for Spatial and Numeric Data Services from the Institute of Transportation Studies at the University of California, Berkeley. He was subsequently named Head of Data Services. He provided leadership in developing a top Geospatial Information Science (GIS) library program, assembling one of the most substantial GIS data collections in the nation, accompanied by a full range of services to faculty and staff. Morris was later appointed as Head of Digital Library Initiatives, a role in which he built and led an internationally recognized team of librarians and technologists engaged in the development of next-generation digital library systems. Under his leadership, that team has developed award-winning tools and applications, including three ALA "Cutting-Edge Technology in Library Services" awards. Most recently, Morris has served as Interim Associate Director for the Digital Library.

Among Morris' notable professional activities is the Geospatial Multistate Archive and Preservation Project, one of four state-focused projects funded by the Library of Congress under the National Digital Information Infrastructure and Preservation Project (NDIIPP). Named by the Library of Congress in 2008 as one of the "Pioneers of Digital Preservation," Morris continues to be involved in community-wide efforts such as the Digital Preservation Network and Academic Preservation Trust. In addition to publications and presentations in the field of geospatial data and digital preservation, Morris presented "Think Like a Startup: Creating a Culture of Innovation, Inspiration, and Entrepreneurialism," at the Association of College and Research Libraries meeting in 2013.

Morris holds the Masters in Library and Information Studies from the University of California, Berkeley, and the Master of Arts and the Bachelor of Arts in Geography from California State University, Chico.





Joe White

**Joe White** has joined the NCSU Libraries as Director of Finance and Business.

In this position, White works closely with the Vice Provost and Director of Libraries, and under the direction of the Associate Director for Materials Management, to provide business, fiscal, and budget management for the Libraries. He directs all library purchases and accounting operations, including internal control, monitoring, and reporting of state-appropriated, overhead receipt, and foundation accounts. His other responsibilities include researching, analyzing, and adjusting policies and procedures for the budget process, including analyzing budget proposals to determine feasibility and compliance with library, university, and state rules and regulations. He will also provide technical analysis and advice to aid the Libraries in planning.

White comes to the Libraries from the NC Office of State Budget and Management where he was a Budget and Management Analyst. In this role, he managed several complex divisional budgets totaling over \$3.5 billion within the Department of Health and Human Services. His responsibilities included allocating funds, monitoring and reconciling monthly expenditures, and revising budgets within the confines of the law. He also served as the project lead for the North Carolina Integrated Budget Information System, a \$10 million statewide information technology project that established a centralized, web-based system for budget development, execution, and reporting activities.

White previously served as a Budget Analyst for the Catawba County Government and as a Policy and Management Analyst for the NC Department of the State Treasurer. He has held research positions at both the NC Budget and Tax Center and the NC Civic Education Consortium. He began his career as a

teacher in North Carolina and Michigan. He holds the Master of Public Administration from the University of North Carolina at Chapel Hill and the Bachelor of Arts in History from Michigan State University.

**Christina (Tina) A. Morrison**

has accepted the position of Director of Development for Major Gifts in the NCSU Libraries.

Joining the development team in working to build private support for the Libraries' mission and strategic priorities, Tina Morrison will manage both major gift and discovery portfolios. She comes to the NCSU Libraries from her position as

Advancement Officer for the 20-branch library system of the Smithsonian Libraries, where her experience encompassed annual giving strategy, managing fundraising events, stewardship of major donors and named opportunities, and endowment fundraising. Previously, she served as Planned Giving and Principal Gifts Associate for the Philadelphia Museum of Art, working with major and planned giving donors and coordinating with curators to secure and acknowledge gifts of art for the Museum's collections.

Morrison holds the Bachelor of Arts, *cum laude* in Communications from the University of Pennsylvania. She presented "How to Develop & Harness the Potential of Your Library's Board" at the 2015 Academic Library Advancement & Development Network Conference.



Tina Morrison

**Jill Sexton** has been appointed Head of Information Technology in the NCSU Libraries.

Sexton brings to this role years of experience in an academic library setting, spanning digital library development, integrated library systems, federated discovery platforms, digital preservation systems, and technology-reliant public services. Her most recent position was as Head of Digital Research Services at the University of North Carolina at Chapel Hill (UNC-CH), with responsibility for supporting data-centric research services. In that role, she chaired the committee responsible for defining the Research Hub, UNC Libraries' new digital scholarship center, and worked to develop strategic partnerships with other campus departments supporting research. She has served in various roles at UNC-CH, including Head of Digital Repository Services, where she led a team of developers building complex systems for access, discovery, and long-term preservation. She previously served as Information Infrastructure Architect, as Applications Analyst, and as System Librarian for Integrated Library Systems at UNC-CH.

Among Sexton's notable professional activities are recent presentations: "Picture This! Supporting Data



Jill Sexton

Visualization Services at Scale," with Carol Hunter and Joe Williams at the CNI Spring 2015 Membership meeting, and "Open Source Collaboration: A Pathway to Sustainability," with Tim McGeary and Andrew Woods, at EDUCAUSE 2013. She has served as a member of the UNC Faculty Council and as Convener for the APTrust Content and Metadata Working Group, 2013.

Sexton holds the Master of Science in Information Science from UNC-CH and the Bachelor of Arts in English Literature from Rowan College of New Jersey.

**Tory Gibler** has joined the Libraries as Development Officer, Friends of the Library (FOL).

Completing the Libraries' development team, Gibler will work to build the FOL constituency and extend the Libraries' outreach and promotional activities. She will also strengthen outreach to young alumni and new prospects in order to build the Libraries' major gift pipeline for NC State University's capital campaign.

Gibler comes to the Libraries from her position as Fundraising and Events Ambassador at the LIVESTRONG Foundation, where she raised funds and increased Team LIVESTRONG event participation in the Austin Marathon & Half Marathon. Previously, she served as Development Officer at the University of Texas McCombs School of Business. There she supported corporate development and planned events for executives and donors.

Gibler holds the Bachelor of Science in Public Affairs, with a Major in Public Management and a Minor in Fundraising and Resource Development, from the Indiana University School of Public and Environmental Affairs.



Tory Gibler



# "An Icon of the Libraries," Orion Pozo Retires



Orion Pozo retired this fall from his role as the Engineering Collection Manager at the NCSU Libraries after 36 years of dedicated service. An innovator and champion of students, he built a world-class engineering and computer science collection; led collection strategies around electronic resources, networked databases, online journals, ebooks, and ebook readers; and helped establish social media connections between the Libraries and students, faculty, and staff. Pozo laid the foundation of many library units including Special Collections, Preservation, Reference, Assistive Technologies, and Collection Management.

Pozo received his Masters in Library Science degree at the State University of New York at Geneseo and first worked for the Yonkers Public Library in 1972. After splitting time between the libraries of the New York Botanical Garden and the Bronx Zoo, Pozo worked for the SUNY Albany library before coming to Raleigh as a reference and liaison librarian with the School of Engineering in 1979.

Always one to act when he saw a need for action, Pozo garnered recognition as the "Book Doctor" in the 1980s, volunteering his lunch hours to oil leather-bound books that were drying out throughout the collections. Soon he was chairing the Library Preservation Committee, which handled a mold outbreak crisis in 1985 that affected over 5,000 shelves of books. As a founding member of the Special Collections Committee, Orion co-authored its first use policy the following year.

Pozo helped lead the NCSU Libraries into the electronic and Internet age. He coordinated the American Society for Engineering Education/Engineering Libraries Division (ELD) online Duplicates Exchange, through which libraries filled gaps in their print journal holdings. The ELD recognized Pozo with its Homer I. Bernhardt Distinguished Service Award in 2002. He received an honorable mention in DIALOG's 1993 national contest by using the new RANK command to generate lists of journals cited by NC State authors.



In 1999 Pozo helped the NCSU Libraries embark on its first ebook reader project, and helped start the blog "The Physical and Engineering Sciences News" in 2005. As Peace Furst, he was the virtual librarian on NCSU's Wolflands Campus in Second Life.

Pozo left a lasting mark on both the Libraries and countless students through his sincerity, commitment, and creativity. Hilary Davis, head of Collection Management and director of Research Data Services, says,

"For many, Orion has become an icon of the NCSU Libraries—representing friendship, openness, respect, and guidance for so many who needed help with their classes, research, external interests, and just finding their footing in life at NC State. Orion inspires us to be better at what we do day in and day out."



THE FRIENDS OF THE LIBRARY  
**2014–2015**  
HONOR ROLL





# The Friends of the Library 2014–2015 Honor Roll

We are delighted to recognize the generous support of our donors for the 2014-2015 fiscal year. Private support for the Libraries is vital to our ability to provide the learning spaces, collections, and technologies that offer NC State students and faculty a competitive advantage. We thank you for your continued commitment.

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 Priscilla Theodore Smith  
 Leigh Travis  
 Tiffany Whittington

## **IN MEMORIAM: DORIS BATCHELOR MERITT**

Doris Batchelor Meritt, Life Member of the NCSU Friends of the Library, passed away on March 10, 2015 in Raleigh, North Carolina at the age of 87. Doris established a collections endowment in honor of her late husband, Dr. Joseph "Jay" Meritt, which will also be sustained through a bequest from her estate. The endowment supports the Libraries' collections in the humanities.

Known for her quick wit, wonderful sense of humor and unique laugh, Doris was born in Nashville, North Carolina on October 30, 1927 to Baldey and Bessie Ward Batchelor, and lived her entire married life in Raleigh. In 1948, Doris graduated with a BS in secretarial administration from UNC Greensboro (then known as The Woman's College). Doris and her

husband Jay spent much of their free time traveling together, visiting all 50 states and numerous countries across the globe.

In addition to her exceptional involvement with the NCSU Libraries, Doris was active with the Hospice of Wake County/Transitions LifeCare, UNCG, Meals on Wheels of Wake County, and the Alexander Family YMCA, among other charitable organizations.

She was predeceased in death by her beloved husband in 1992; four sisters, Delia Batchelor, Ruby Batchelor Taylor, Vernon Batchelor Griffin, and Helen Ricks Batchelor; and one brother, William E. (Champ) Batchelor. Doris is survived by two nieces, Janet Taylor Moore and Lorraine Batchelor.

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## **IN MEMORIAM: DR. CHARLES B. DAVEY**

Dr. Charles B. "Chuck" Davey, professor emeritus of Forestry, Plant Pathology, and Soil Science, passed away on July 7, 2015. Chuck and his wife, Beth, are Friends of the Library Life Members and established the Davey Family Endowment in 2008 to support the NCSU Libraries' natural resources collections.

Chuck was raised in upstate New York, where he worked with his grandfather on the family farm. He earned a B.S. in Forestry from New York State College of Forestry in Syracuse in 1950, and a M.S. & Ph.D in Forest Soils and Microbiology from the University of Wisconsin-Madison in 1952 and 1955. After serving in the U.S. Army Chemical Corp, Chuck performed research for the United States Department of Agriculture in Beltsville, MD.

In 1962, Chuck began a career at NC State that spanned half a century, including service as Department Head of Forestry from 1970-78. Chuck

became professor emeritus in 1992, but continued with teaching and research. He also served as consultant with Zobel Forestry Associates for the next two decades.

In his personal time, Chuck served for decades at West Raleigh Presbyterian Church, traveled to remote locations around the world, sailed whenever he could, rode his motorcycle, read, and enjoyed time with his children, grandchildren and friends. He swam faithfully throughout his life and attributed much of his good health to that endeavor.

Chuck is survived by his wife, Beth, to whom he was married for 63 years, as well as three children, Douglas, Andrew, and Barbara, and several grandchildren.





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We thank you for your support of the NCSU Libraries. Please stay in touch. Call or email the Friends of the Library office:

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